Technological Leadership, BS

LATECLDRBS

Are you ready to become a leader in the science and technology fields of the future? You'll learn key skills in interdisciplinary research, technology design and collaborative leadership that will prepare you to solve tomorrow's most challenging problems.

Program description

In the BS degree program in technological leadership, students learn complex problem-solving, technical design thinking and leadership skills. Coursework focuses on individual and team-based research, technology design, intensive internships and fundamental skills in writing, math and coding.

Offered by the Interplanetary Initiative, this major consists of an interdisciplinary blend of student-driven classroom learning and hands-on projects. In inquiry classes, students use an innovative inquiry cycle to explore big questions associated with human society and space exploration. Examples of these questions include, "What will the moon look like after human settlement?" and "How can we create and sustain a human biosystem in space?" In hands-on classes, students use technical design thinking processes with software and lab tools to create physical products, digital solutions, or service designs that address complex challenges in the world of science and technology.

In addition, immersive internships provide students with an opportunity to apply knowledge from academic courses in order to address research opportunities or practical challenges, and to gain valuable experience in the workplace before graduation.

At a glance

- **College/School:** The College of Liberal Arts and Sciences
- **Location:** Tempe or Online, ASU Local

- **Second language requirement:** No

- **First required math course:** MAT 251 - Calculus for Life Sciences or MAT 265 Calculus for Engineers I or MAT 270 Calculus with Analytic Geometry I
- **Math intensity:** Moderate

Required courses (Major Map)

2024 - 2025 Major Map (on-campus)
2024 - 2025 Major Map (online)
Major Map (Archives)

Concurrent program options

Students pursuing concurrent degrees (also known as a "double major") earn two distinct degrees and receive two diplomas. Working with their academic advisors, students can create their own concurrent degree combination. Some combinations are not possible due to high levels of overlap in curriculum.

Accelerated program options

This program allows students to choose a 3-year path while participating in the same high-quality educational experience of a 4-year option. Students can opt to fast-track their studies after acceptance into a participating program by connecting with their academic advisor. Fast track options appear at the top of the major map.

This program also allows students to obtain both a bachelor's and master's degree in as little as five years. It is offered as an accelerated bachelor's plus master's degree with:

Global Management, MGM

Human Systems Engineering (Intelligent Systems), MS

Human Systems Engineering (User Experience Research), MS

Human Systems Engineering, MS

Technology (Management of Technology), MSTech

Acceptance to the graduate program requires a separate application. Students typically receive approval to pursue the accelerated master's during the junior year of their bachelor's degree program. Interested students can learn about eligibility requirements and how to apply.

Admission requirements

General university admission requirements:
All students are required to meet general university admission requirements.

First-year | Transfer | International | Readmission

Tuition information

When it comes to paying for higher education, everyone's situation is different. Students can learn about [ASU tuition and financial aid](#) options to find out which will work best for them.

Change of Major Requirements

A current ASU student has no additional requirements for changing majors.

Students should visit the [Change of Major form](#) for information about how to change a major to this program.

Attend online

ASU Online

ASU offers this program in an online format with multiple enrollment sessions throughout the year. Applicants may [view the program's ASU Online page](#) for program descriptions and to request more information.

ASU Local

It is now possible to earn an ASU degree with [ASU Local](#), an integrated college experience in which students take advantage of in-person success coaching and programming experiences on site while completing one of 130+ undergraduate online degree programs, all of which come with online faculty interaction and tutoring support.

Transfer options

ASU is committed to helping students thrive by offering tools that allow personalization of the transfer path to ASU. Students may use [MyPath2ASU®](#) to outline a list of recommended courses to take prior to transfer.

ASU has [transfer partnerships](#) in Arizona and across the country to create a simplified transfer experience for students. These pathway programs include exclusive benefits, tools and resources, and they help students save time and money in their college journey.

Global opportunities

Global experience

With more than 300 [Global Education program opportunities](#) available to them, technological leadership students are able to tailor their experience to their unique interests and skill sets. Whether in a foreign country, in the U.S. or online, students build communication skills, learn to adapt and persevere, and are exposed to research and internships across the world, increasing their professional network.

Career opportunities

Graduates with this degree are prepared for a wide variety of exciting career opportunities in diverse industries, such as software and technology, energy, aerospace, finance, law and education. They are prepared to succeed in many areas, such as:

- academic research
- business strategy
- data analytics
- engineering management
- entrepreneurship
- management consulting
- product management
- project management
- systems engineering
- technology transfer

Example job titles and salaries listed below are not necessarily entry level, and students should take into consideration how years of experience and geographical location may affect pay scales. Some jobs also may require advanced degrees, certifications or state-specific licensure.

Career	*Growth	*Median salary
Business Intelligence Analyst ☀	35.2%	$103,500
CEO		$189,520
Compliance Manager	3.3%	$128,620
Engineering Manager	4.1%	$159,920
General Manager (GM) ☀	4.2%	$98,100
Industrial Designer	2.0%	$75,910
Operations Manager ☀	18.3%	$77,520
Project Manager ☀	6.2%	$95,370
Technical Sales Engineer ☀	4.7%	$108,530
Technical Writer ☀	6.9%	$79,960

* Data obtained from the Occupational Information Network (O*NET) under sponsorship of the U.S. Department of Labor/Employment and Training Administration (USDOL/ETA).

☀ Bright Outlook

Contact information

Schedule an advisor appointment
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